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A-64580-5



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FIG._1B



FIG._1D

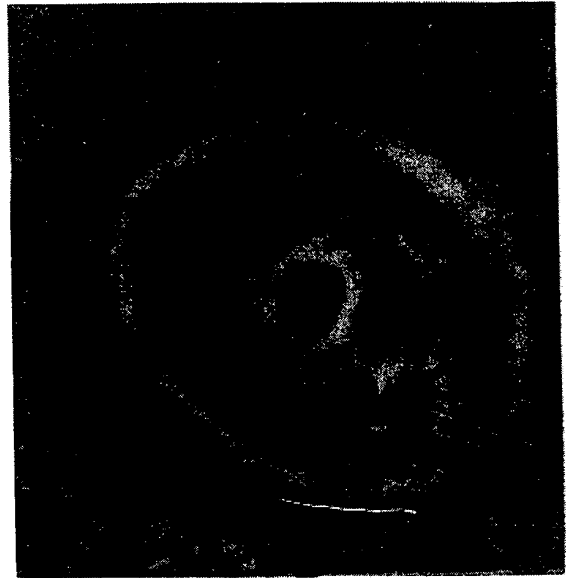


FIG._1A

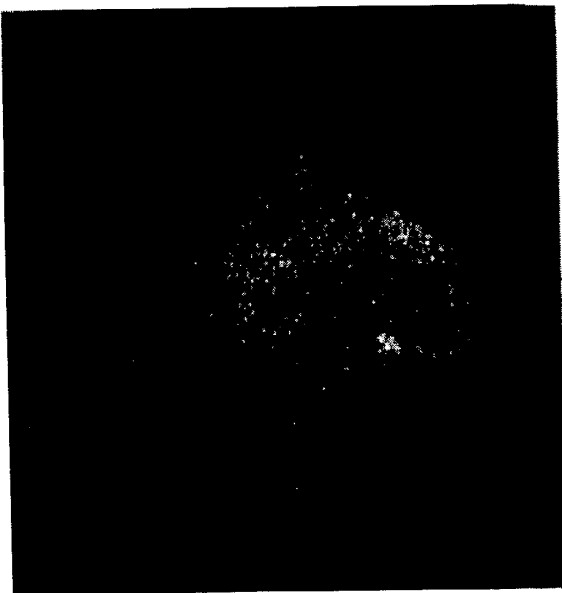
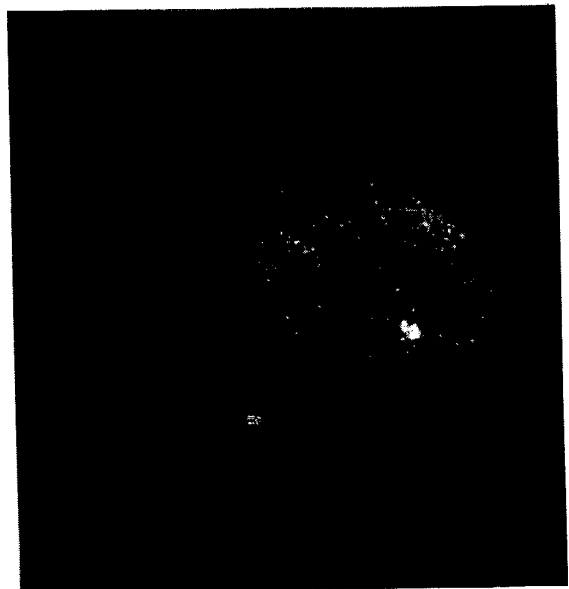


FIG._1C



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FIG. 2A

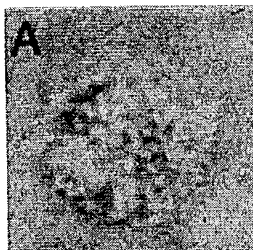


FIG. 2B

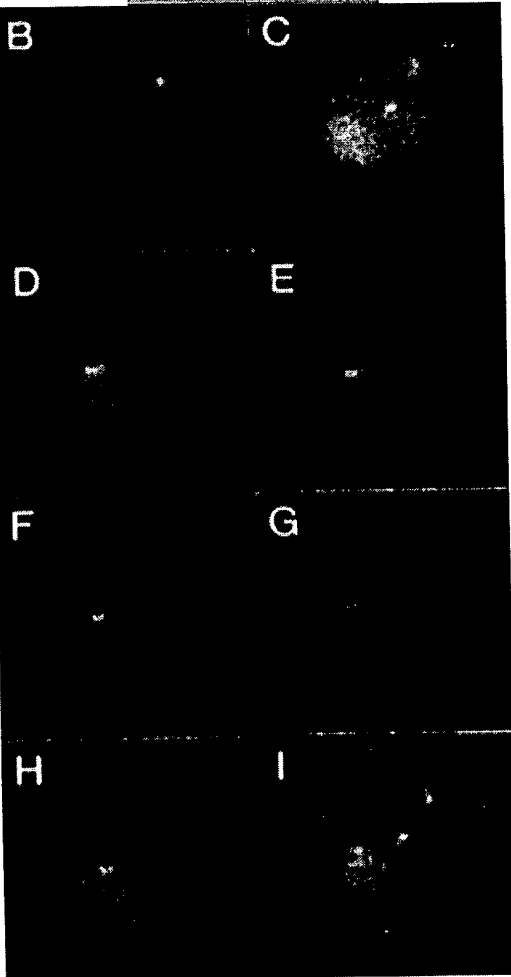


FIG. 2C

FIG. 2D

FIG. 2E

FIG. 2F

FIG. 2G

FIG. 2H

FIG. 2I

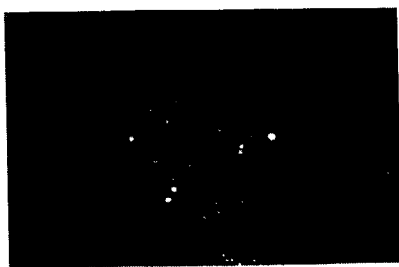


FIG. 2K

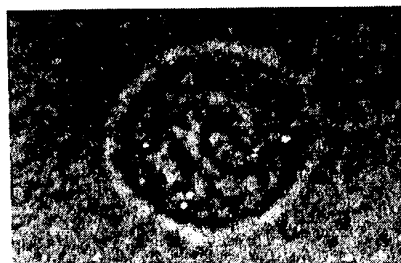
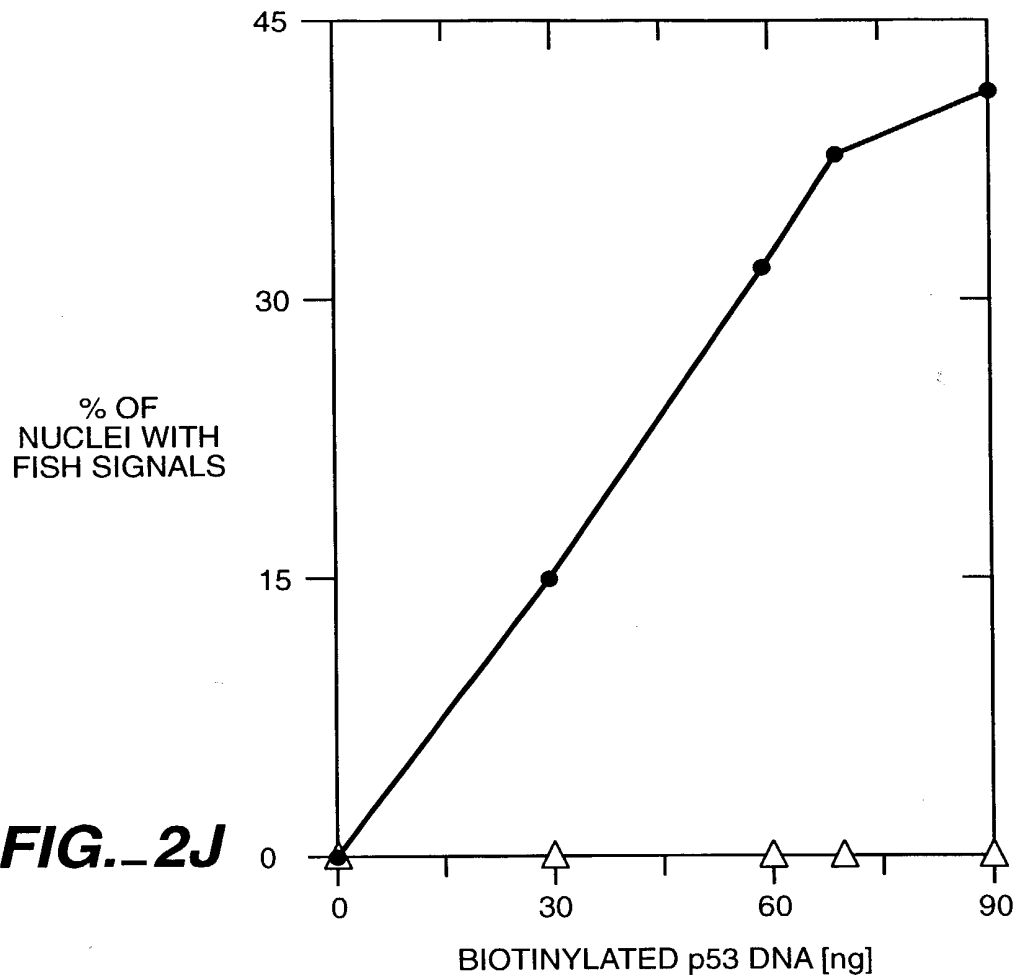
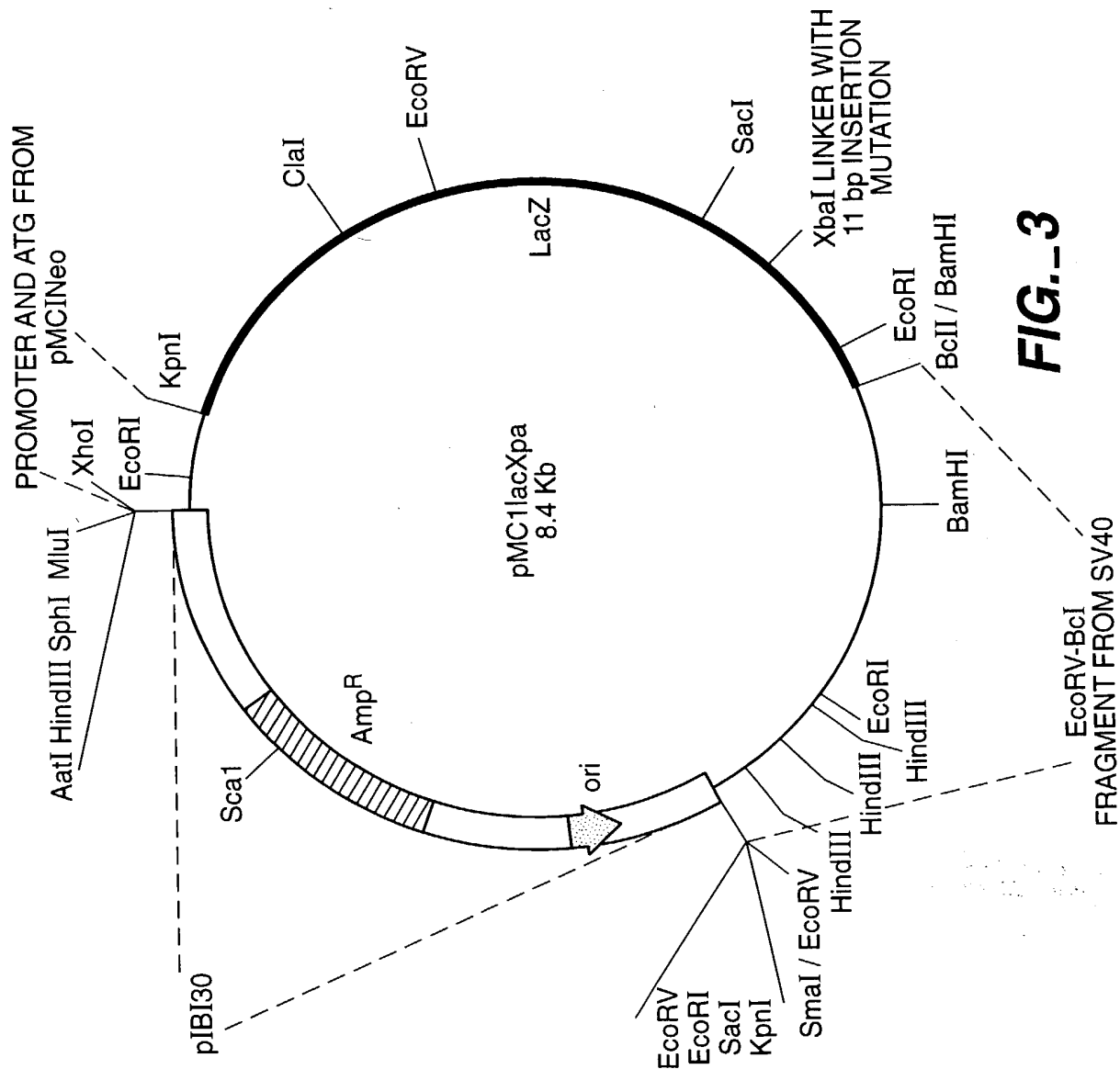


FIG. 2L

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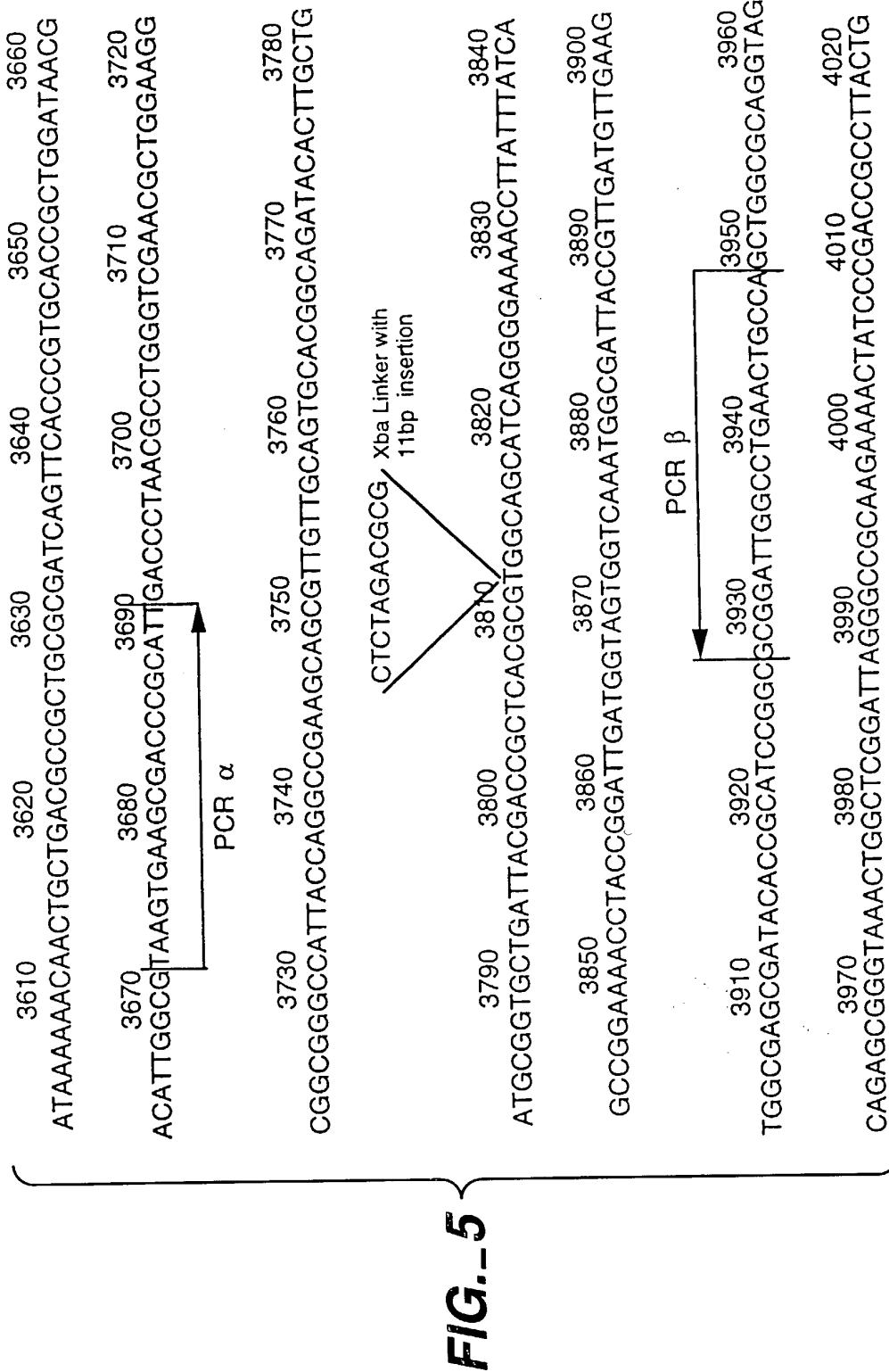


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EXPERIMENTAL SAMPLE	INJECTED PLASMID, 276-mer DNA AND RecA PROTEIN	NUMBER OF INJECTED SURVIVING CELLS	NUMBER OF SURVIVING CELLS SCORING BLUE	SURVIVING CELLS SCORING BLUE (%)
1	pSV- β -gal -276-mer - RecA	168	21	12.5
2	pMC1lacpa -276-mer - RecA	98	9	9.2
3	pMC1lacXpa -276-mer - RecA	173	0	0
4	pMC1lacXpa +276-mer - RecA	103	0	0
5	pMC1lacXpa +276-mer + RecA	168	6	3.6

FIG.-6

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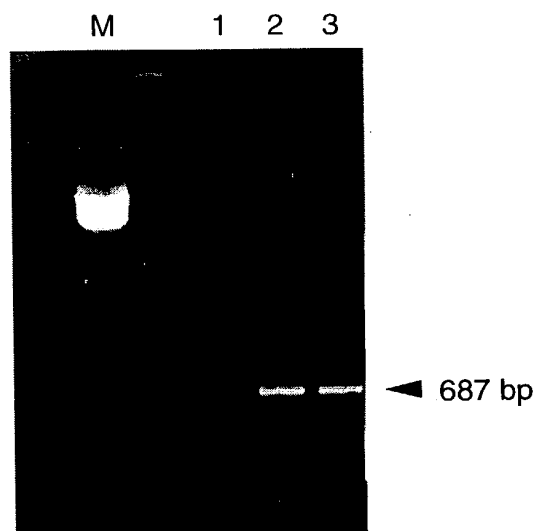


FIG. 7A

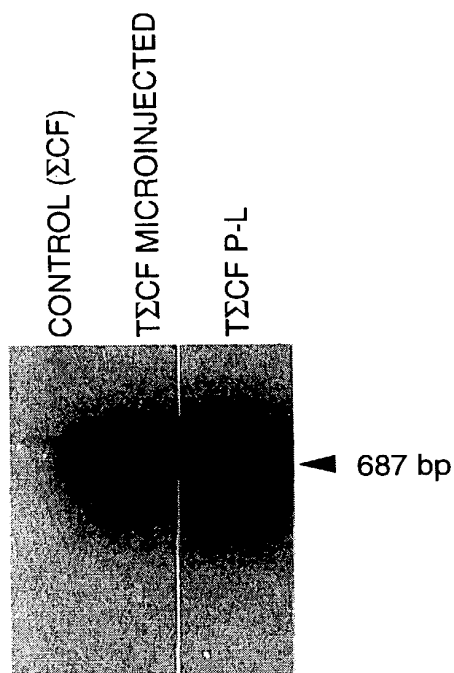


FIG. 7B

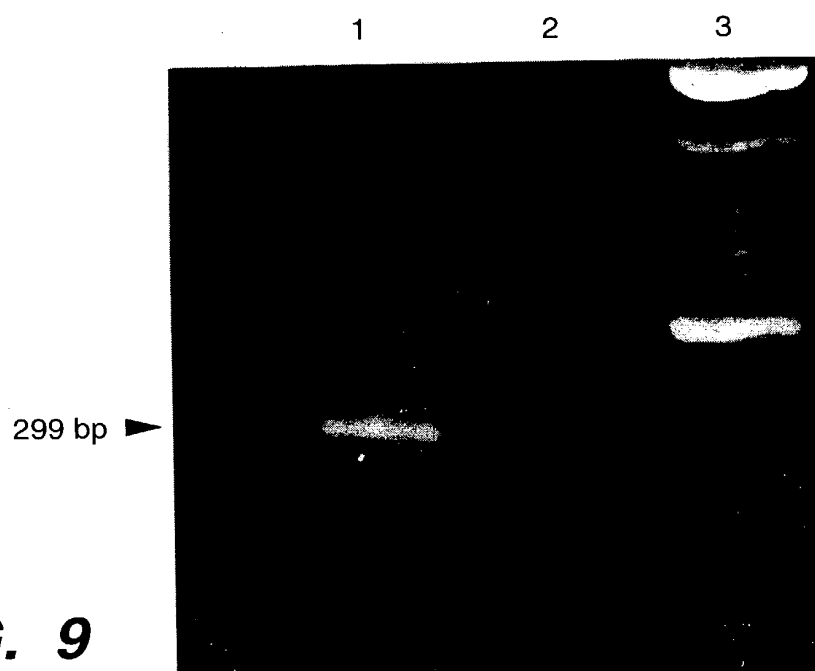


FIG. 9

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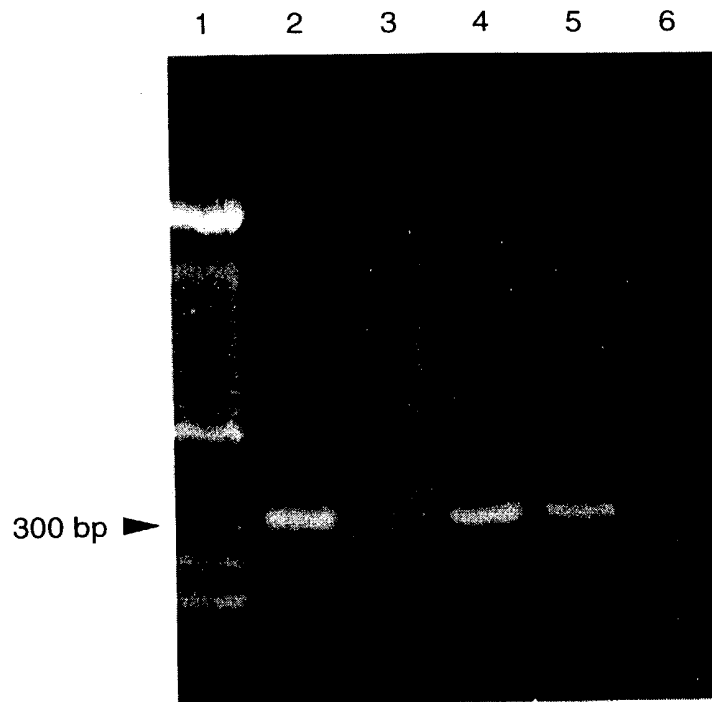


FIG._8A

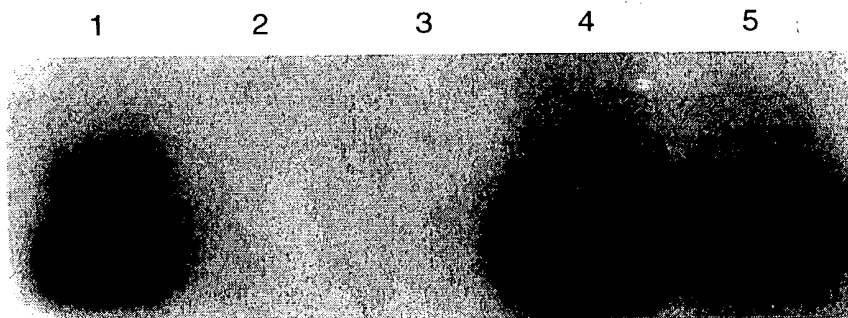
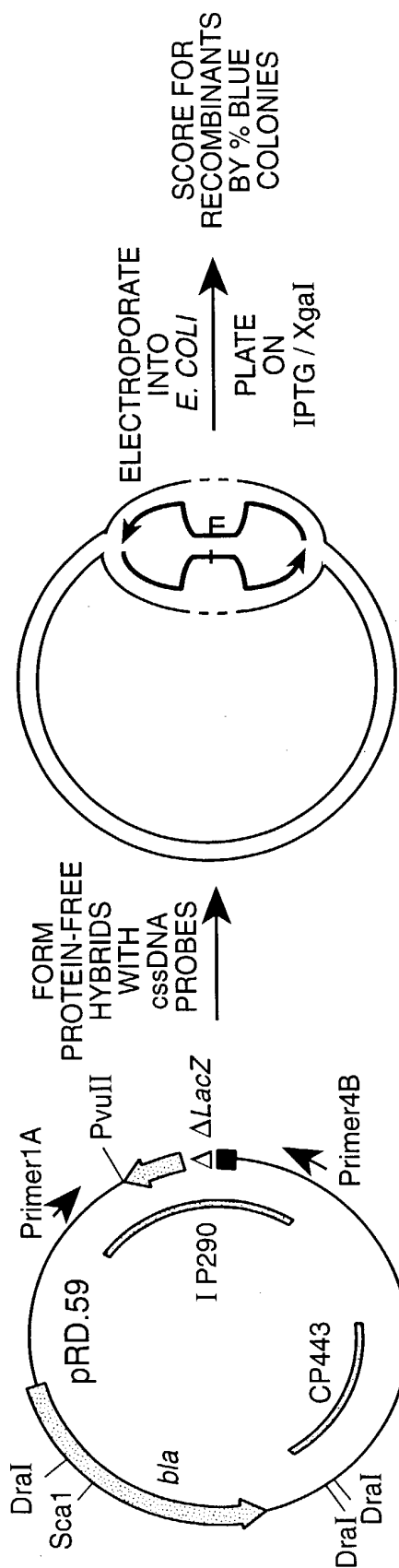
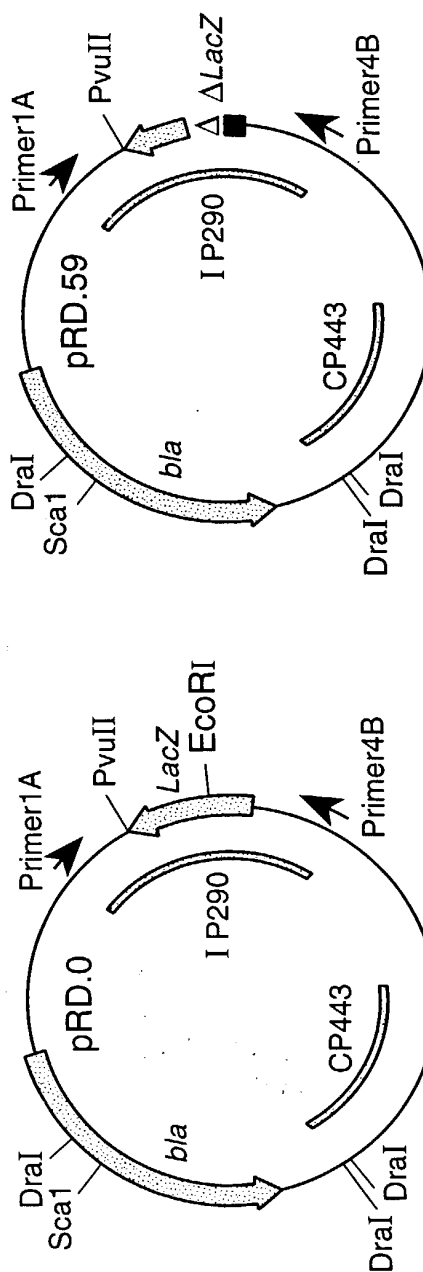
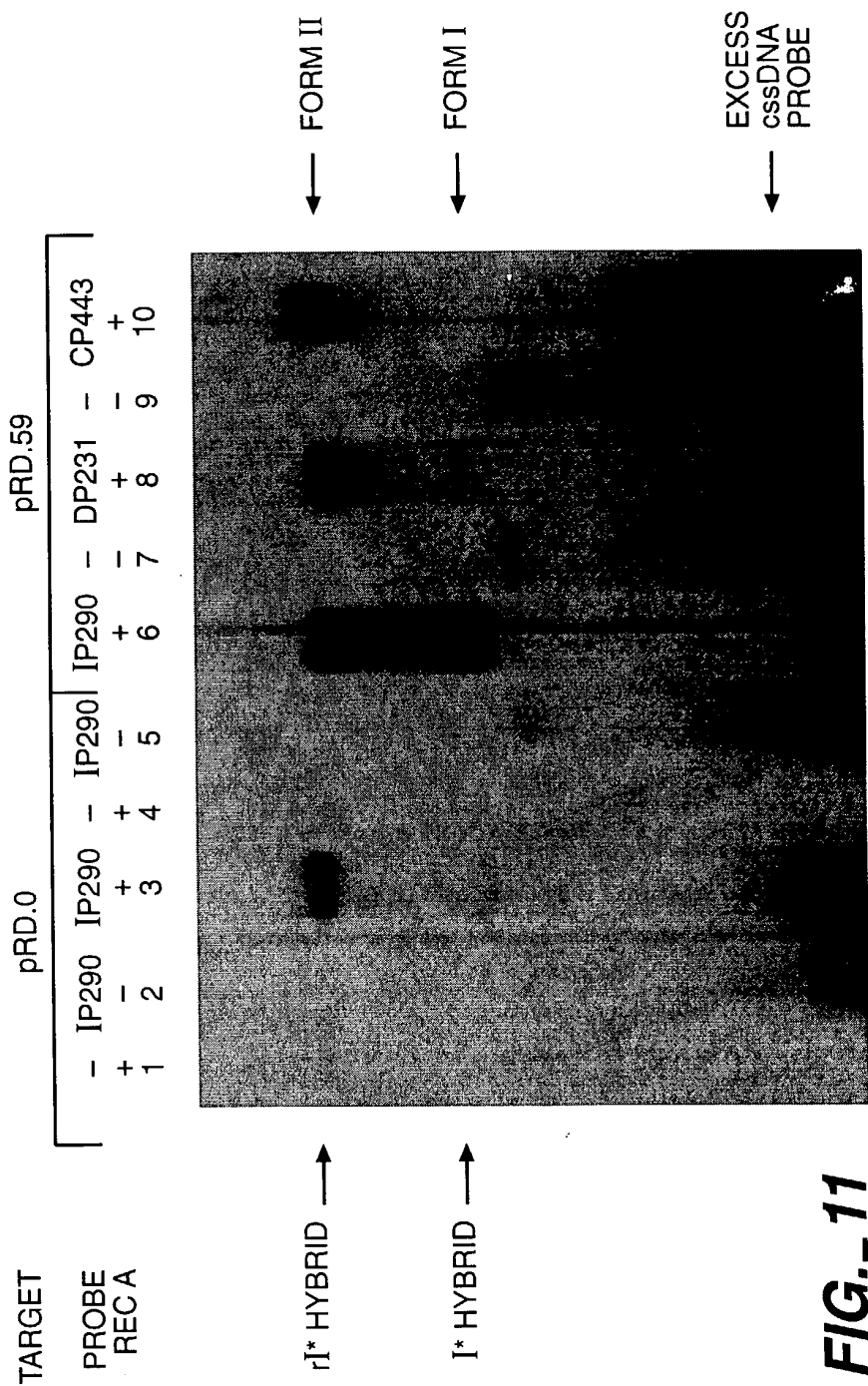


FIG._8B

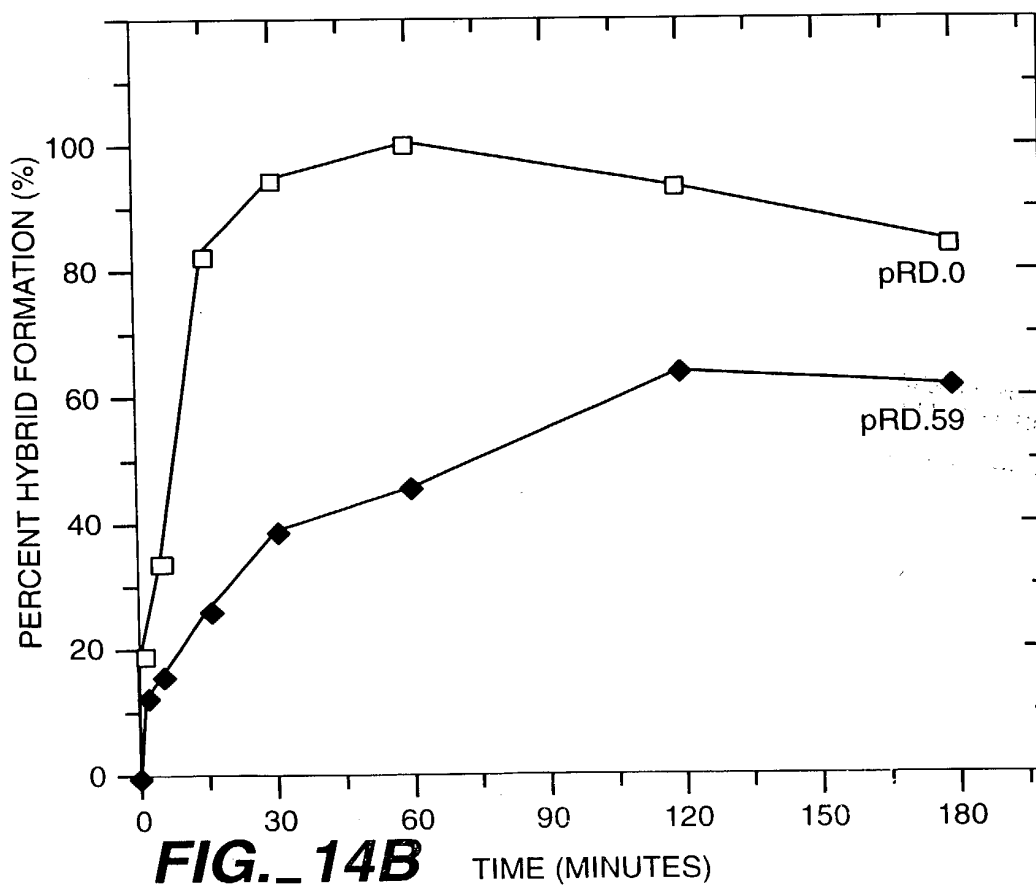
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**FIG._10****FIG._14A**

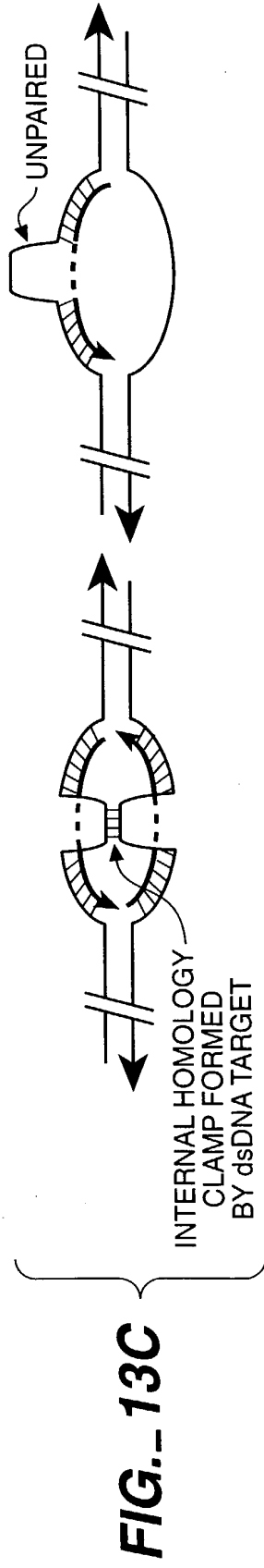
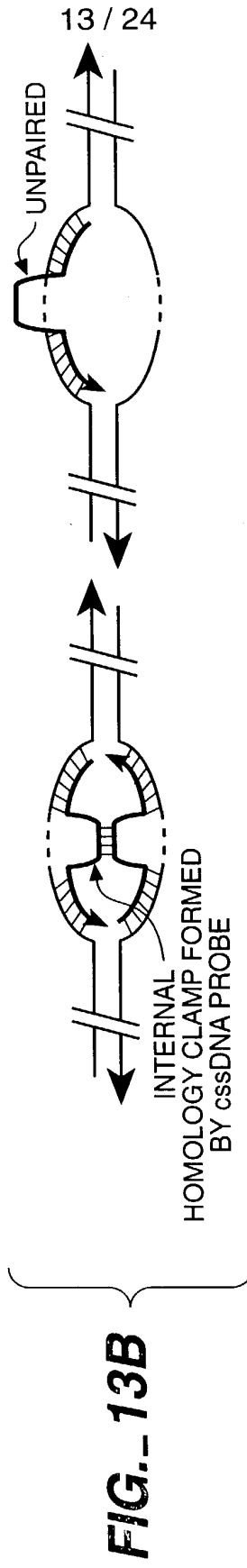
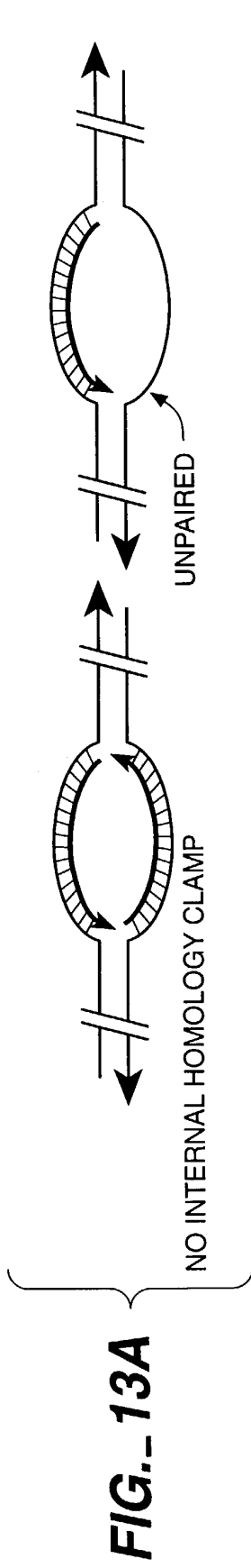


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TARGET PROBE	RecA COATING	HOST	% RECOMBINANT / TOTAL COLONIES
pRD.59	-	RecA+	0
	-	RecA-	0
pRD.59 IP290	-	RecA+	0
	-	RecA-	0
pRD.59 IP290	+	RecA+	3
	+	RecA-	0
pRD.59 DP290	-	RecA+	0
	-	RecA-	0
pRD.59 DP290	+	RecA+	0
	+	RecA-	0
pRD.59 CP443	-	RecA+	0
	-	RecA-	0
pRD.59 CP443	+	RecA+	0
	+	RecA-	0

FIG. 12

+



+

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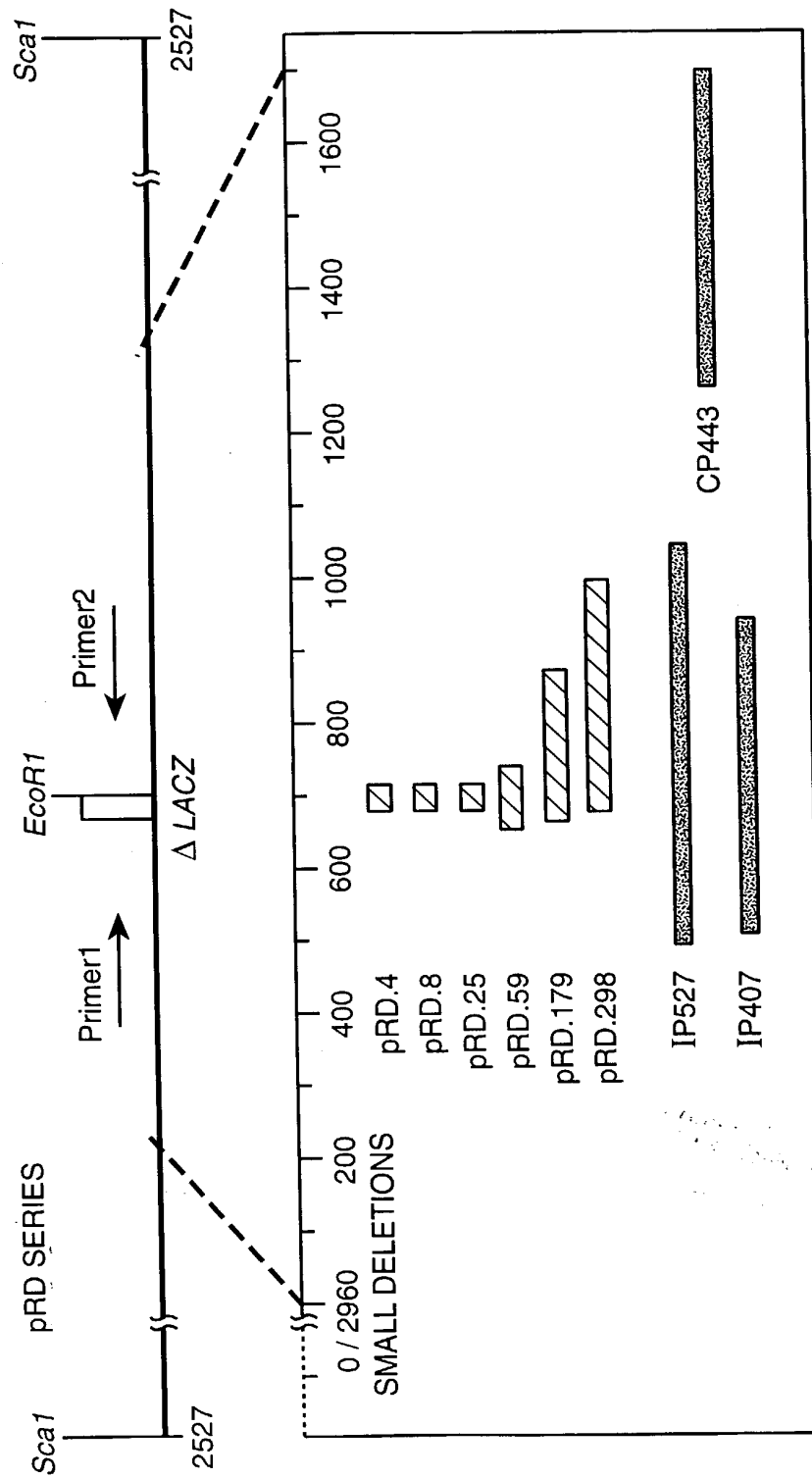
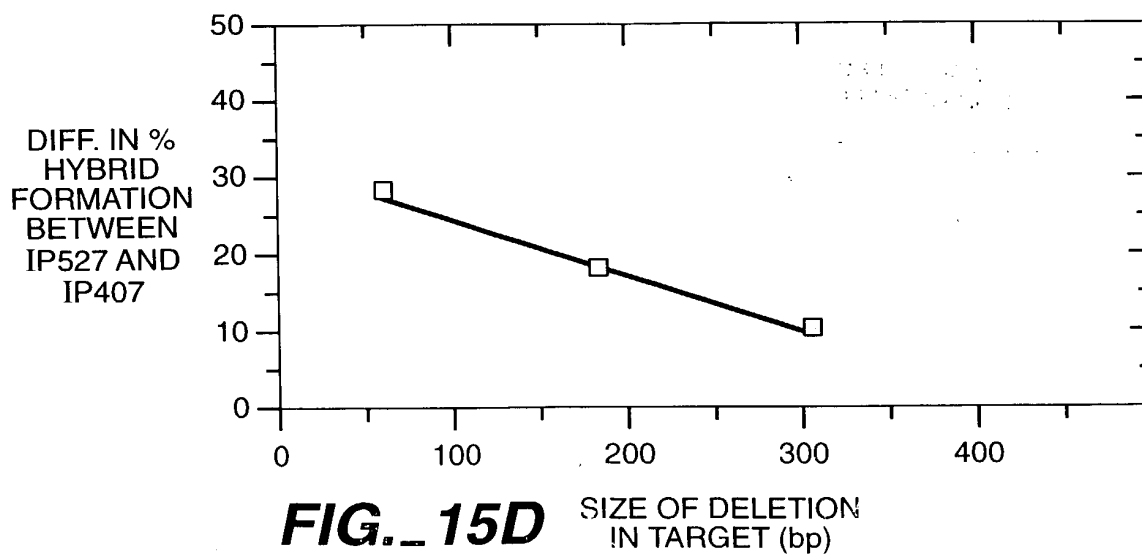
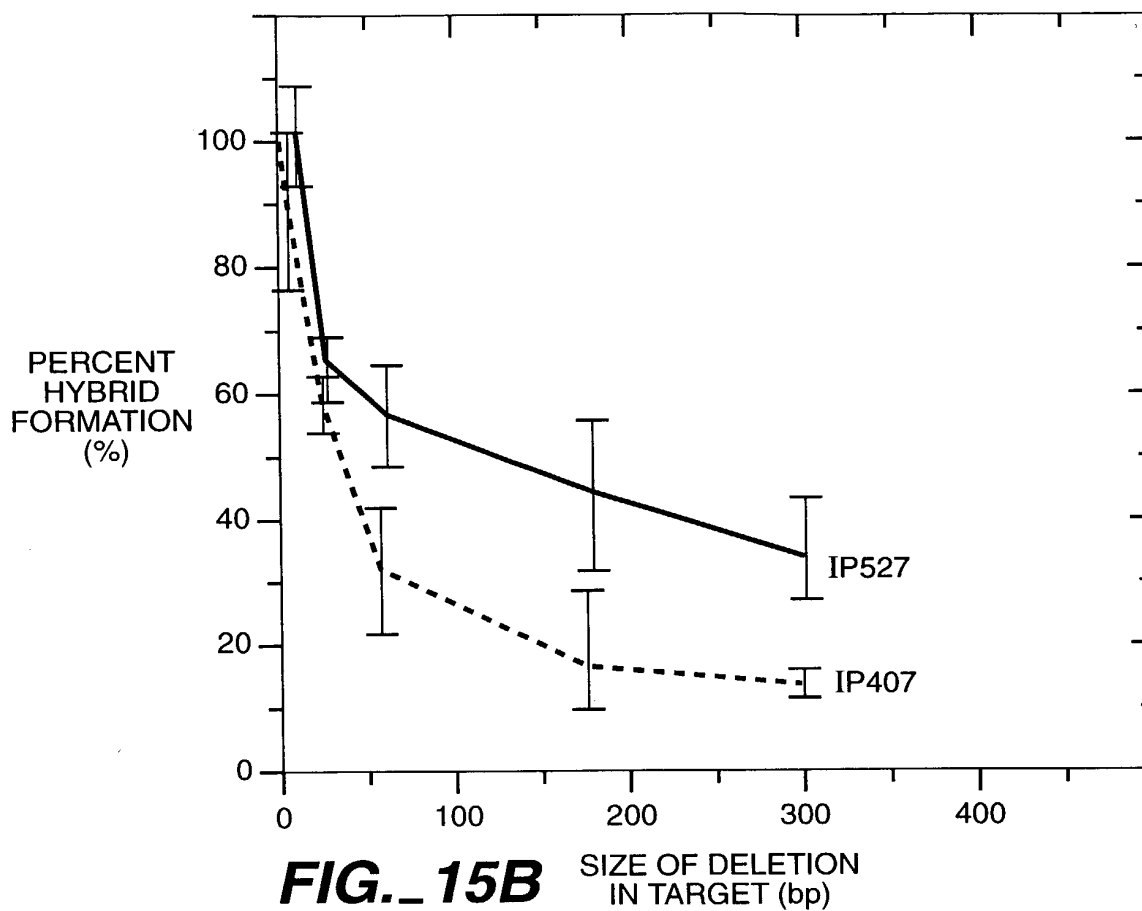
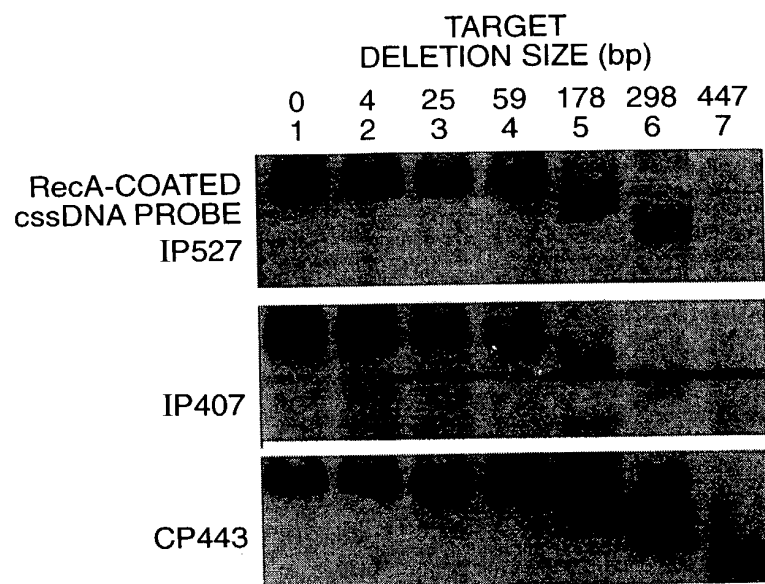
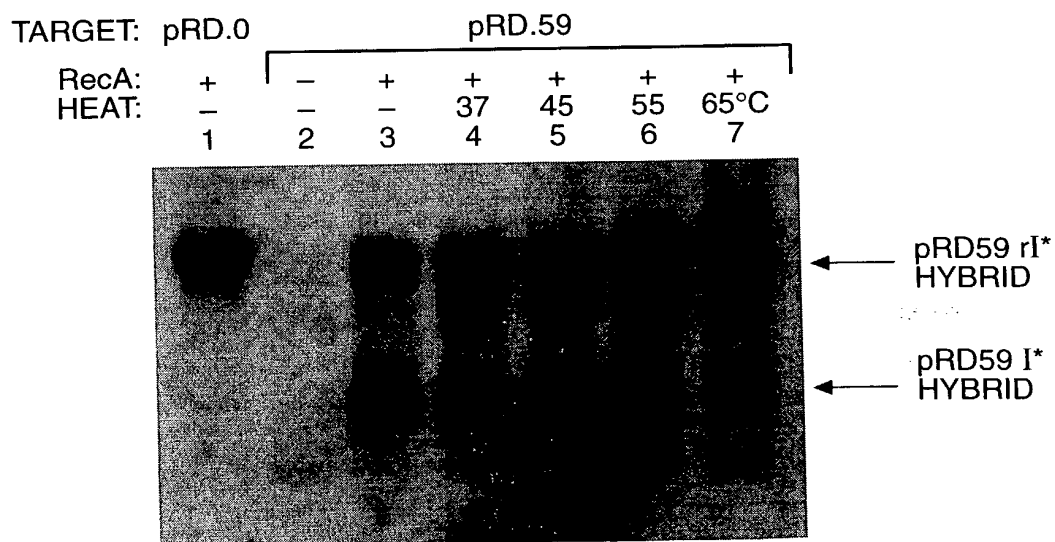


FIG. 15A

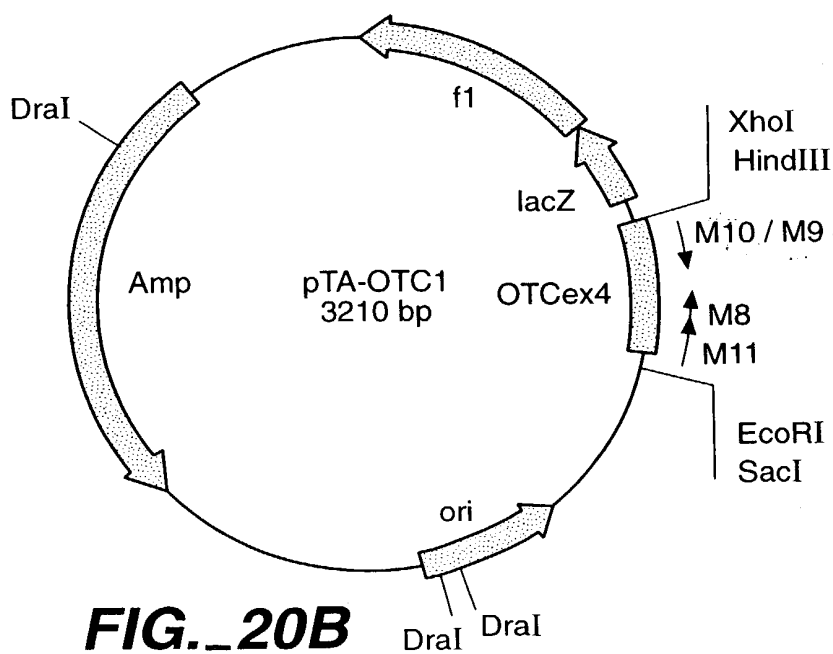
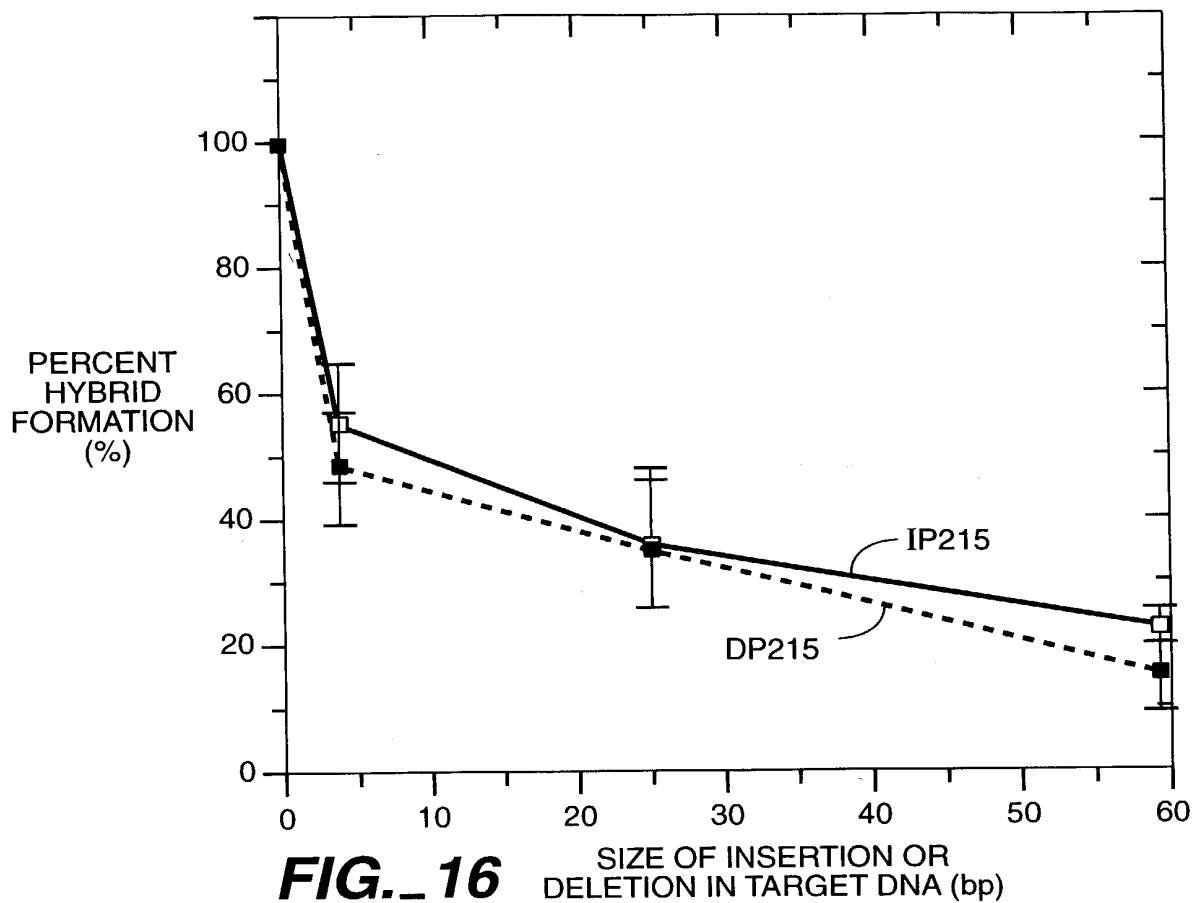
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**FIG._15C****FIG._19**

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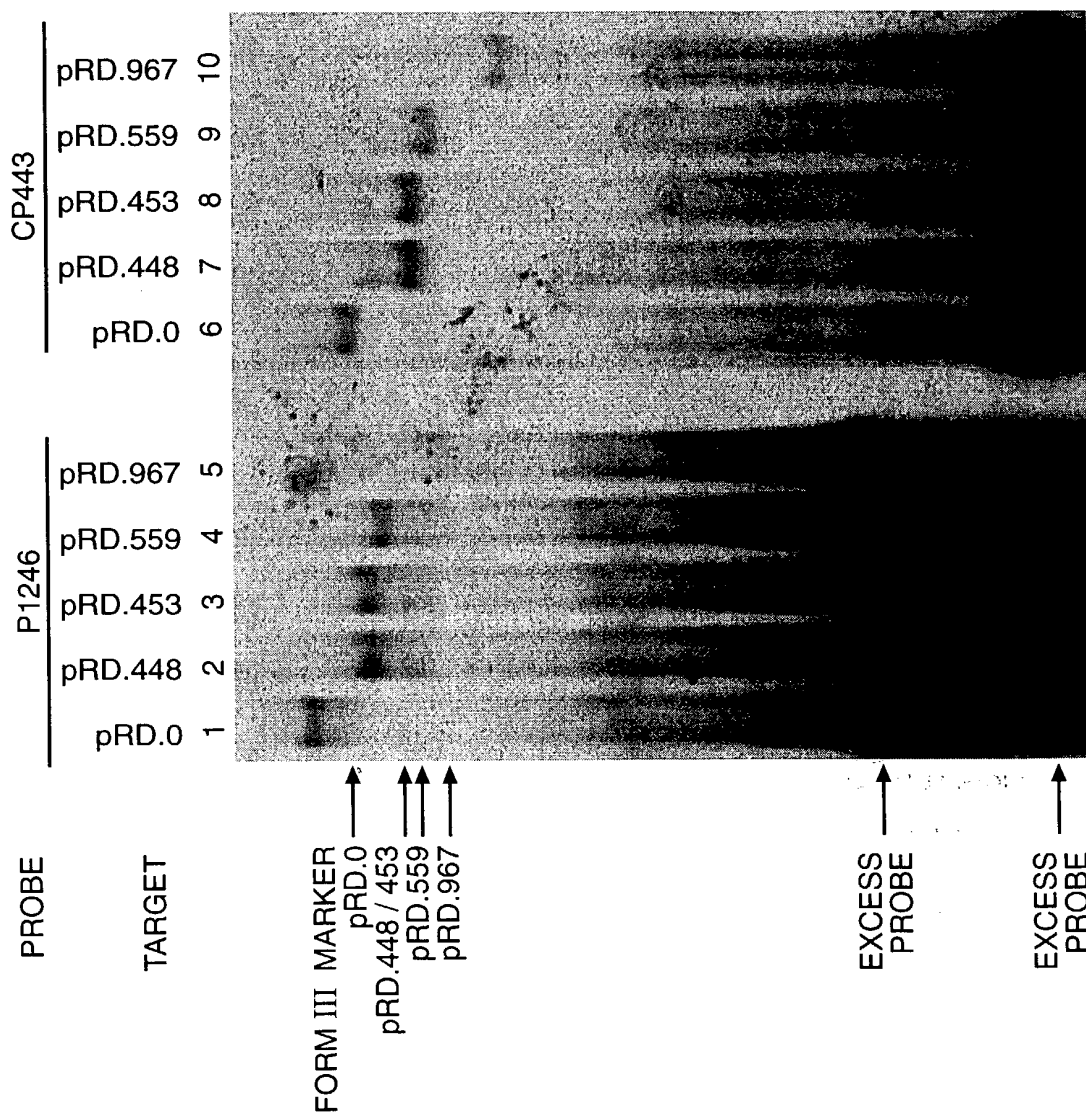
FIG. 17A

FIG. 17B

TARGET DNA	AMT. HOMOL. (bp)	RELATIVE HYBRIDIZATION
pRD.0	1246	1.0
pRD.448	798	0.8
pRD.453	793	0.8
pRD.559	687	0.8
pRD.967	279	0.3

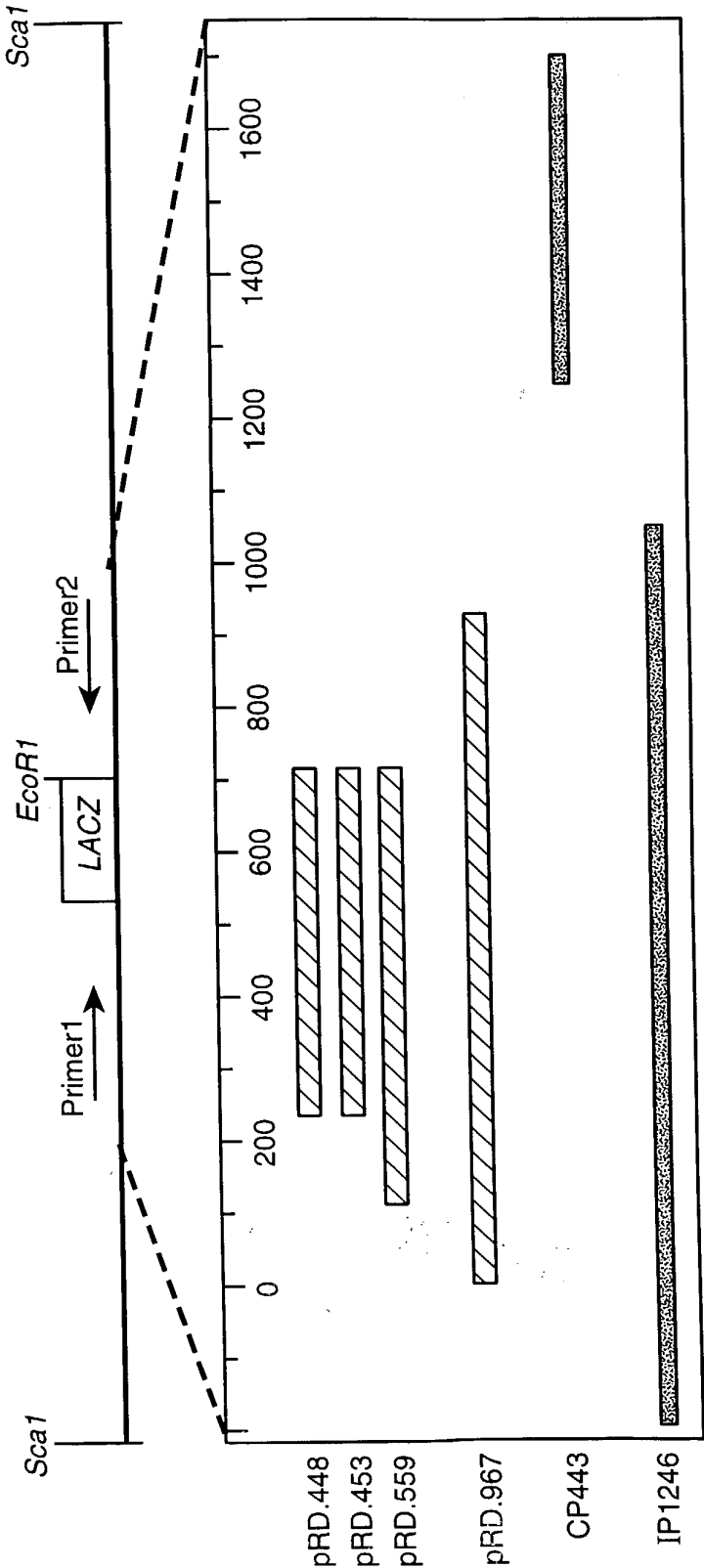
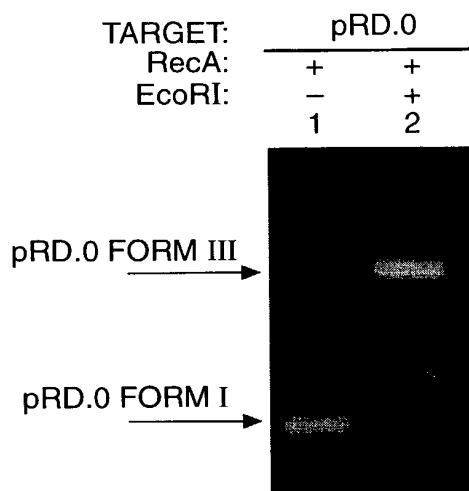
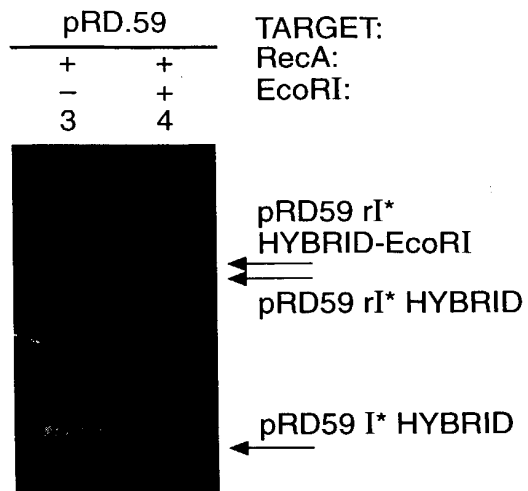
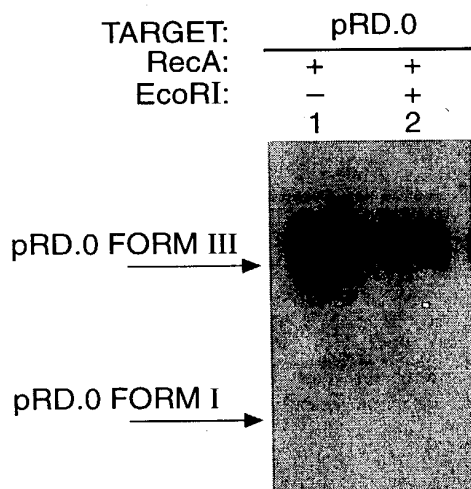
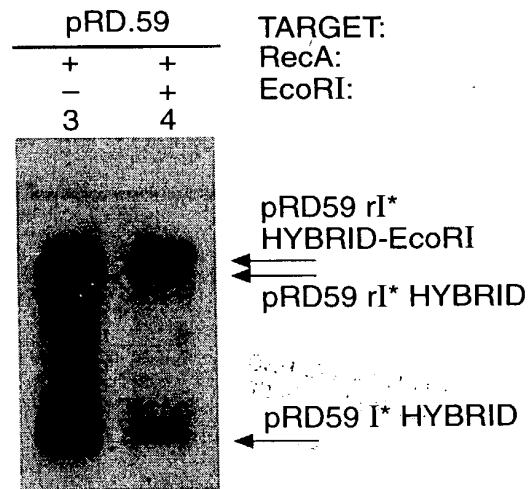


FIG. 17C

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**FIG. 18A****FIG. 18B****FIG. 18C****FIG. 18D**

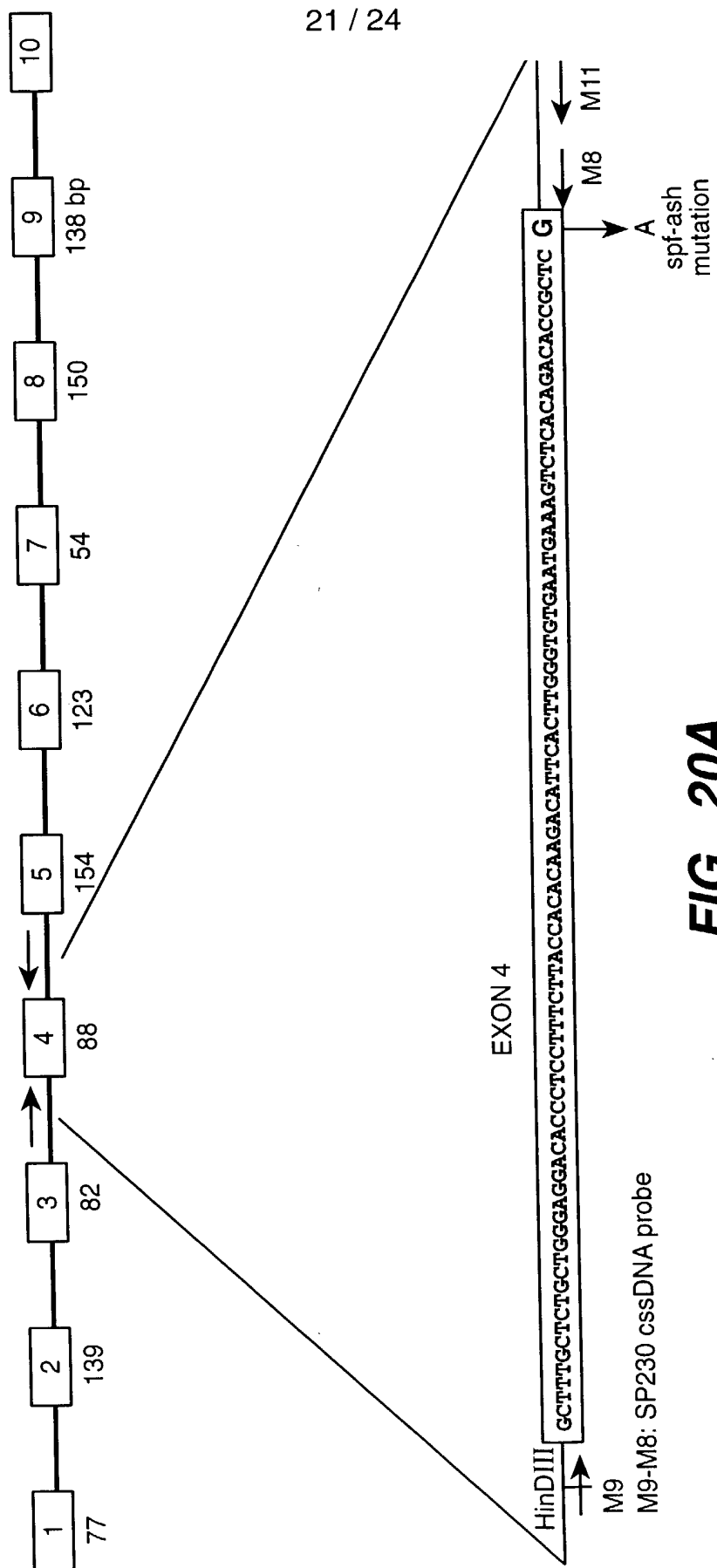


FIG. 20A

FIG. 21



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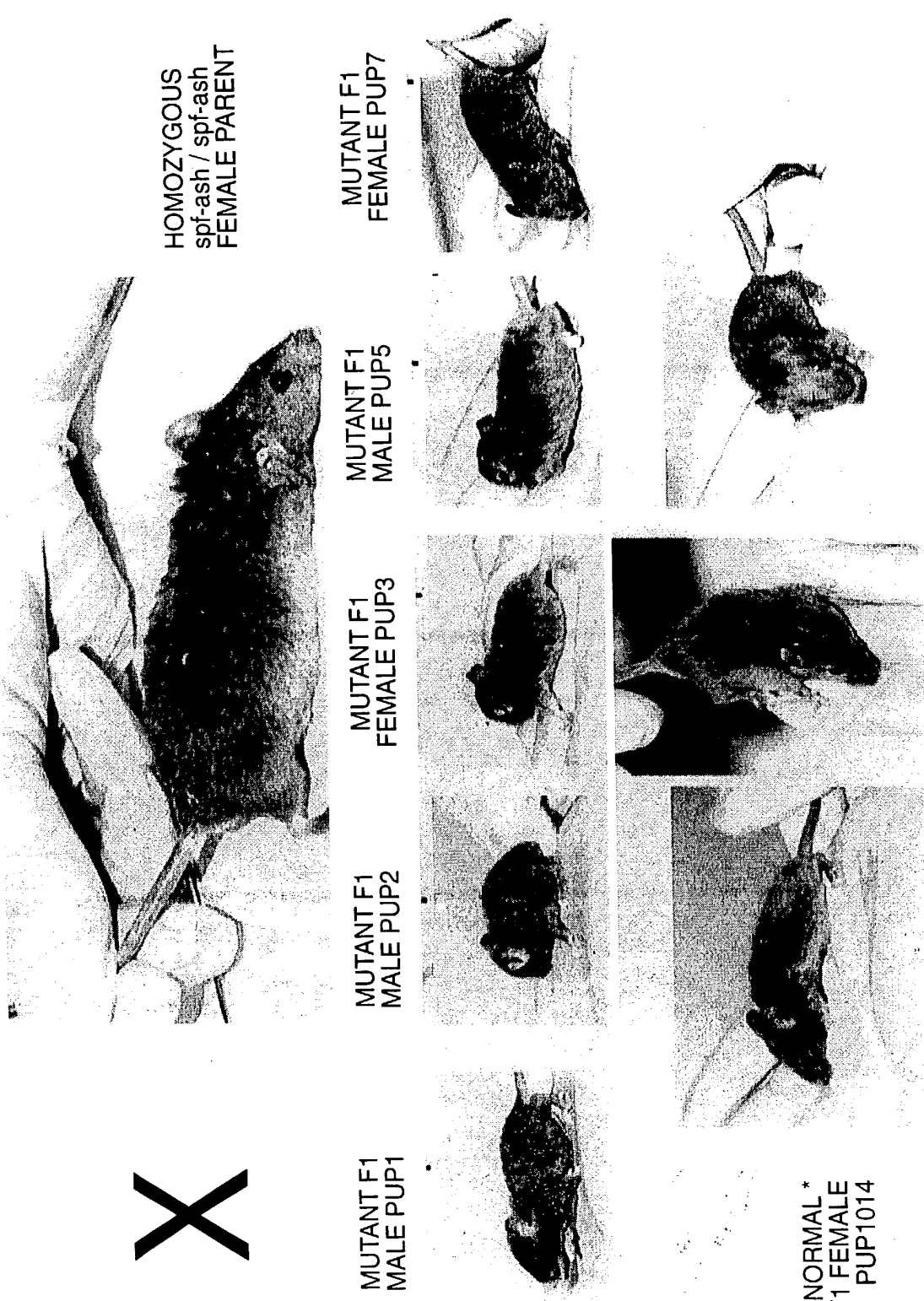


FIG..23